

Appendix A

1. (Twice amended) A method for promoting healing of a skin wound comprising steps of:

providing isolated tropoelastin substantially identical to wild type tropoelastin and isolated lysyl oxidase substantially identical to wild type lysyl oxidase separated from each other; and

applying both said tropoelastin and said lysyl oxidase to a skin wound simultaneously or sequentially, so that said tropoelastin is not cross-linked to itself prior to application to the wound.

2. The method of claim 1 wherein tropoelastin is wild type tropoelastin matched to species of recipient.

5. The method of claim 1 wherein tropoelastin comprises a heterogeneous mixture of tropoelastin isoforms.

9. The method of claim 1 wherein the method comprises the additional step of: repeatedly applying the tropoelastin and lysyl oxidase to the wound during the healing process.

10. The method of claim 1 wherein the method comprises the additional step of: approximating separated tissue of the wound using sutures, staples, adhesive strips, or tissue glue.

11. The method of claim 1 wherein the step of applying comprises applying the tropoelastin and lysyl oxidase with a sterile syringe.

12. (Amended) The method of claim 1 wherein the tropoelastin or lysyl oxidase has been mixed with other materials selected from the group consisting of polymers, emulsifiers, oils,

perfumes, proteins, polysaccharides, nucleic acids, microfibrils, antimicrobial agents, adhesive agents, and protease inhibitors.

13. (Amended) A kit comprising tropoelastin substantially identical to wild type tropoelastin and lysyl oxidase substantially identical to wild type lysyl oxidase in separate compartments.

14. The kit of claim 13 wherein the tropoelastin is wild type tropoelastin.

17. The kit of claim 13 wherein the lysyl oxidase is wild type lysyl oxidase.

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